

NOS 17 or 19 in, respectively, allele HA-1 II or allele HA-1 R.

F1
2. Method for typing of alleles of the Minor Histocompatibility Antigen HA-1 in a sample, the method comprising detecting polymorphic nucleotides in the cDNA or genomic nucleic acids of said alleles, thereby typing the alleles, wherein said alleles are HA-1 H or HA-1 R alleles, or a combination thereof with a sequence as shown in SEQ ID NOS 17 or 19.

F2
4. Method according to claim 1, further comprising: said at least one pair of primers comprises a 5'-primer that specifically hybridizes to a target region comprising the nucleotides at position 4 or at positions 4 and 8 in the HA-1 allele, or said at least one pair of primers comprises a 3'-primer that specifically hybridizes to a target region comprising the nucleotides at position 8 or at positions 4 and 8 in the HA-1 allele, with said positions being indicated in SEQ ID NOS 17 and 19.

F3
9. Method according to claim 7 further characterized in that said at least one probe specifically hybridizes to a target region comprising the nucleotides at position 8 or at positions 4 and/or 8 in the HA-1 allele, with said positions being indicated in SEQ ID 17 and 19.

F4
13. An isolated polynucleic acid comprising a sequence as shown in SEQ ID NO 1, or SEQ ID NO 17 or SEQ ID NO 19 or an isolated polynucleic acid displaying at least 80% homology to said polynucleic acids, or any fragment of said polynucleic acids, that can be used as a primer or as a probe for typing of alleles of the Minor

F4
Histocompatibility Antigen HA-1 according to claim 1.

F5
17. A diagnostic kit for genomic typing of alleles of the Minor Histocompatibility Antigen HA-1 with said kit comprising: a) at least one primer according to claim 10; and b) optionally, an enzyme and/or reagents enabling the amplification reaction, and/or reagents enabling the sequencing reaction.

F6
20. An isolated polynucleic acid comprising SEQ ID NO 1, or an isolated polynucleic acid displaying at least 80% sequence homology to the isolated polynucleic acid.

F7
21. An isolated polynucleic acid comprising SEQ ID NO 17, or an isolated polynucleic acid displaying at least 80% sequence homology to the isolated polynucleic acid.

22. An isolated polynucleic acid comprising SEQ ID NO 19, or an isolated polynucleic acid displaying at least 80% sequence homology to the isolated polynucleic acid.
